



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch

10625 Fallstone Road, Houston, TX 77099

Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----- Wilcox Oil

Sample Collection Date(s)-- 09/19/16 - 09/22/16

Contact----- Katrina Coltrain(6SF-LP)

Report Date----- 12/14/16

Project #----- 16SF126

Work Order(s)----- 1609020
1609027
1609031

Analyses included in this report:

Cyanide 335.4	LC IC-UV Hexavalent Chromium
Metals ICP CLP	Metals ICP/MS CLP
Metals Mercury CLP (E)	P/P 8011 EDB
VOA CLP Low Level	

Report Narrative

Volatiles:

Acetone, where reported, is qualified as estimated due to failure of this analyte in the second source verification for the initial calibration. This analyte is also qualified as blank related, where reported in field samples, due to presence of this analyte in the associated analysis blank and/or field blank. [Note: Both B and FB qualifiers were used for samples in work order 1609020 because there was no clear cut qualifier to use (lab and field contamination approximately equal). Samples in work order 1609031 were qualified using only FB because concentrations of Acetone in field blanks were significantly higher than laboratory contamination.]

Bromomethane is qualified as blank related in all samples due to the presence of this analyte in the associated analysis blank.

Batch B612805: One analyte fails in the BS but should not affect the data.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

The reporting limit (sometimes referred to as a quantitation limit) is defined as the lowest concentration at which an analyte can be reliably measured and reported without qualification. Reporting limits are adjusted for sample size, dilution, and matrix interference. Concentrations below the reporting limit are reported as non-detects or <RL.

Report Approvals:

RICHARD MCMILLIN

Digitally signed by RICHARD MCMILLIN
DN: c=US, o=U.S. Government, ou=USEPA, ou=Staff,
cn=RICHARD MCMILLIN, dnQualifier=0000008516
Date: 2016.12.14 16:00:10 -06'00'

Richard McMillin
Region 6 Laboratory Technical Manager

David W. McQuiddy

Digitally signed by David W.
McQuiddy
Date: 2016.12.15 06:44:44 -06'00'

David W. McQuiddy
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Wilcox Oil

Project Number: 16SF126

Data Management Coordinator: Christy Warren

Data Management Coordinator Signature

Date

Date Transmitted: ____/____/____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
GW-03	1609020-01	Liquid	9/19/16 15:44	09/20/16 09:40
GW-04	1609020-02	Liquid	9/19/16 14:30	09/20/16 09:40
GW-06	1609020-03	Liquid	9/19/16 17:07	09/20/16 09:40
TB-160919-1	1609020-04	Liquid	9/19/16 13:30	09/20/16 09:40
GW-07	1609027-01	Liquid	9/21/16 10:59	09/22/16 09:20
GW-09	1609027-02	Liquid	9/21/16 16:51	09/22/16 09:20
GW-12	1609027-03	Liquid	9/21/16 13:32	09/22/16 09:20
GW-17	1609027-04	Liquid	9/21/16 17:36	09/22/16 09:20
ER-160922	1609031-01	Liquid	9/22/16 13:40	09/23/16 09:05
GW-07	1609031-02	Liquid	9/21/16 10:59	09/23/16 09:05
GW-08	1609031-03	Liquid	9/22/16 14:25	09/23/16 09:05
GW-08-D	1609031-04	Liquid	9/22/16 14:25	09/23/16 09:05
GW-09	1609031-05	Liquid	9/21/16 16:51	09/23/16 09:05
GW-10	1609031-06	Liquid	9/22/16 15:23	09/23/16 09:05
GW-10-D	1609031-07	Liquid	9/22/16 15:23	09/23/16 09:05
GW-12	1609031-08	Liquid	9/21/16 13:32	09/23/16 09:05
GW-13-119	1609031-09	Liquid	9/22/16 12:29	09/23/16 09:05
GW-14	1609031-10	Liquid	9/22/16 10:03	09/23/16 09:05
GW-17	1609031-11	Liquid	9/21/16 17:36	09/23/16 09:05
TB-160920-1	1609031-12	Liquid	9/20/16 9:00	09/23/16 09:05
TB-160922-1	1609031-13	Liquid	9/22/16 9:00	09/23/16 09:05
GW-09-Cr6	1609031-14	Liquid	9/22/16 14:00	09/23/16 09:05



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QC SUMMARY REPORT

LC IC-UV Hexavalent Chromium	
B6J0411	
Liquid	
Samples: 14	ReExts: 0
LAB NUMBER	SOURCE
B6J0411-BLK1	
B6J0411-MS1	1609031-09
B6J0411-MSD1	1609031-09

Metals ICP CLP	
B6I2712	
Liquid	
Samples: 14	ReExts: 0
LAB NUMBER	SOURCE
B6I2712-BLK1	
B6I2712-BS1	
B6I2712-MS1	1609020-02
B6I2712-MS2	1609031-10
B6I2712-MSD1	1609020-02
B6I2712-MSD2	1609031-10

Metals ICP/MS CLP	
B6I2713	
Liquid	
Samples: 14	ReExts: 0
LAB NUMBER	SOURCE
B6I2713-BLK1	
B6I2713-BS1	
B6I2713-MS1	1609020-02
B6I2713-MS2	1609031-10
B6I2713-MSD1	1609020-02
B6I2713-MSD2	1609031-10

Metals Mercury CLP (E)	
B6J0412	
Liquid	
Samples: 14	ReExts: 0
LAB NUMBER	SOURCE
B6J0412-BLK1	
B6J0412-BLK2	
B6J0412-BLK3	
B6J0412-BLK4	
B6J0412-BS1	
B6J0412-MS1	1609020-02
B6J0412-MS2	1609031-10
B6J0412-MSD1	1609020-02
B6J0412-MSD2	1609031-10



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P/P 8011 EDB	
B6I2714	
Liquid	
Samples: 16	ReExts: 0
LAB NUMBER	SOURCE
B6I2714-BLK1	
B6I2714-BS1	
B6I2714-BS2	
B6I2714-BS3	
B6I2714-BS4	
B6I2714-BS5	
B6I2714-BS6	
B6I2714-BS7	
B6I2714-BS8	
B6I2714-BS9	
B6I2714-BSD1	
B6I2714-MS1	1609020-02
B6I2714-MSD1	1609020-02

VOA CLP Low Level	
B6I2805	
Liquid	
Samples: 16	ReExts: 0
LAB NUMBER	SOURCE
B6I2805-BLK1	
B6I2805-BS1	
B6I2805-MS1	1609020-02
B6I2805-MSD1	1609020-02



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609020-01

Station ID: GW-03

Batch: B6I2712

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	98.6		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	16,700		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	23.0		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	10,100		150	"	"	"
Manganese (7439-96-5)	12.5		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	1,700		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	14,200		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609020-01

Station ID: GW-03

Batch: B6I2713

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609020-01

Station ID: GW-03

Batch: B6I2714

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 36.542ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609020-01

Station ID: GW-03

Batch: B6I2805

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	54.6		109	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	53.0		106	85-113	"	"
<i>4-Bromofluorobenzene</i>	46.6		93.1	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.6	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	8.2	B, FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609020-01

Station ID: GW-03

Batch: B6I2805

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609020-01

Station ID: GW-03

Batch: B6J0411

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	3.49		0.120	1	2	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609020-01

Station ID: GW-03

Batch: B6J0412

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609020-02

Station ID: GW-04

Batch: B6I2712

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	22.2		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	42,200		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	16,600		150	"	"	"
Manganese (7439-96-5)	U		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	1,060		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	39,100		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609020-02

Station ID: GW-04

Batch: B6I2713

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609020-02

Station ID: GW-04

Batch: B6I2714

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 37.285ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609020-02

Station ID: GW-04

Batch: B6I2805

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	50.6		101	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	49.2		98.4	85-113	"	"
<i>4-Bromofluorobenzene</i>	42.8		85.6	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.3	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	7.8	B, FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609020-02

Station ID: GW-04

Batch: B6I2805

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609020-02

Station ID: GW-04

Batch: B6J0411

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	0.829		0.060	1	1	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609020-02

Station ID: GW-04

Batch: B6J0412

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609020-03

Station ID: GW-06

Batch: B6I2712

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	61.4		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	52,500		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	79.0		25.0	"	"	"
Magnesium (7439-95-4)	18,000		150	"	"	"
Manganese (7439-96-5)	5.9		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	1,510		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	47,300		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609020-03

Station ID: GW-06

Batch: B6I2713

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609020-03

Station ID: GW-06

Batch: B6I2714

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 36.744ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609020-03

Station ID: GW-06

Batch: B6I2805

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	49.4		98.7	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	48.2		96.3	85-113	"	"
<i>4-Bromofluorobenzene</i>	42.7		85.5	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.4	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	6.4	B, FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609020-03

Station ID: GW-06

Batch: B6I2805

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Phone:(281)983-2100 Fax:(281)983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609020-03

Station ID: GW-06

Batch: B6J0411

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	3.63		0.120	1	2	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609020-03

Station ID: GW-06

Batch: B6J0412

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609020-04

Station ID: TB-160919-1

Batch: B6I2714

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 36.82ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609020-04

Station ID: TB-160919-1

Batch: B6I2805

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	53.4		107	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	54.7		109	85-113	"	"
<i>4-Bromofluorobenzene</i>	46.6		93.2	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.7	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	U		5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methyleyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609020-04

Station ID: TB-160919-1

Batch: B6I2805

Date Collected: 09/19/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609027-01

Station ID: GW-07

Batch: B6I2712

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	60.6		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	13,200		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	5,470		150	"	"	"
Manganese (7439-96-5)	U		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	1,580		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	6,390		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609027-01

Station ID: GW-07

Batch: B6I2713

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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Phone:(281)983-2100 Fax:(281)983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609027-01

Station ID: GW-07

Batch: B6J0411

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	4.63		0.120	1	2	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609027-01

Station ID: GW-07

Batch: B6J0412

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609027-02

Station ID: GW-09

Batch: B6I2712

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	213		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	38,900		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	33.0		20.0	"	"	"
Iron (7439-89-6)	52.6		25.0	"	"	"
Magnesium (7439-95-4)	20,900		150	"	"	"
Manganese (7439-96-5)	27.0		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	2,690		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	47,300		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	156		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609027-02

Station ID: GW-09

Batch: B6I2713

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	8.0		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609027-02

Station ID: GW-09

Batch: B6J0412

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609027-03

Station ID: GW-12

Batch: B6I2712

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	50.8		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	46,700		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	15,700		150	"	"	"
Manganese (7439-96-5)	23.3		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	1,530		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	8,070		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609027-03

Station ID: GW-12

Batch: B6I2713

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609027-03

Station ID: GW-12

Batch: B6J0411

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	0.314		0.060	1	1	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609027-03

Station ID: GW-12

Batch: B6J0412

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609027-04

Station ID: GW-17

Batch: B6I2712

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	139		100	1	09/28/16	10/21/16
Barium (7440-39-3)	58.3		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	51,300		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	129		25.0	"	"	"
Magnesium (7439-95-4)	17,000		150	"	"	"
Manganese (7439-96-5)	10.8		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	1,370		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	28,100		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	56.8		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609027-04

Station ID: GW-17

Batch: B6I2713

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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Phone: (281) 983-2100 Fax: (281) 983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609027-04

Station ID: GW-17

Batch: B6J0411

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	4.92		0.120	1	2	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609027-04

Station ID: GW-17

Batch: B6J0412

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609031-01

Station ID: ER-160922

Batch: B6I2712

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	U		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	U		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	U		150	"	"	"
Manganese (7439-96-5)	U		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	U		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609031-01

Station ID: ER-160922

Batch: B6I2713

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-01

Station ID: ER-160922

Batch: B6I2714

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 37.475ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-01

Station ID: ER-160922

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	51.0		102	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	50.3		101	85-113	"	"
<i>4-Bromofluorobenzene</i>	42.9		85.9	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.6	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	24.3	J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-01

Station ID: ER-160922

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609031-01

Station ID: ER-160922

Batch: B6J0411

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	U		0.060	1	1	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609031-01

Station ID: ER-160922

Batch: B6J0412

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-02

Station ID: GW-07

Batch: B6I2714

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 36.957ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-02

Station ID: GW-07

Batch: B6I2805

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	48.9		97.8	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	48.6		97.3	85-113	"	"
<i>4-Bromofluorobenzene</i>	41.6		83.2	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.7	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	5.4	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-02

Station ID: GW-07

Batch: B6I2805

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609031-03

Station ID: GW-08

Batch: B6I2712

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	29.5		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	42,600		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	28.8		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	16,300		150	"	"	"
Manganese (7439-96-5)	U		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	10,500		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	10,600		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609031-03

Station ID: GW-08

Batch: B6I2713

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-03

Station ID: GW-08

Batch: B6I2714

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 37.443ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-03

Station ID: GW-08

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	51.3		103	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	51.8		104	85-113	"	"
<i>4-Bromofluorobenzene</i>	44.8		89.7	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	2.1	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	8.2	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-03

Station ID: GW-08

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Phone:(281)983-2100 Fax:(281)983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609031-03

Station ID: GW-08

Batch: B6J0411

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	3.03		0.120	1	2	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609031-03

Station ID: GW-08

Batch: B6J0412

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609031-04

Station ID: GW-08-D

Batch: B6I2712

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	29.2		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	42,000		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	28.1		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	16,100		150	"	"	"
Manganese (7439-96-5)	U		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	10,300		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	10,500		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609031-04

Station ID: GW-08-D

Batch: B6I2713

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-04

Station ID: GW-08-D

Batch: B6I2714

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 37.229ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-04

Station ID: GW-08-D

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	49.1		98.1	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	49.6		99.3	85-113	"	"
<i>4-Bromofluorobenzene</i>	41.7		83.4	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.7	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	11.7	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-04

Station ID: GW-08-D

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



Environmental Protection Agency
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Phone:(281)983-2100 Fax:(281)983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609031-04

Station ID: GW-08-D

Batch: B6J0411

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	3.11		0.120	1	2	09/29/16	09/29/16



Environmental Protection Agency
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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609031-04

Station ID: GW-08-D

Batch: B6J0412

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-05

Station ID: GW-09

Batch: B6I2714

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 37.361ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-05

Station ID: GW-09

Batch: B6I2805

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	50.8		102	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	50.9		102	85-113	"	"
<i>4-Bromofluorobenzene</i>	42.7		85.4	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.9	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	5.6	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-05

Station ID: GW-09

Batch: B6I2805

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609031-06

Station ID: GW-10

Batch: B6I2712

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	489		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	32,400		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	12,700		25.0	"	"	"
Magnesium (7439-95-4)	27,600		150	"	"	"
Manganese (7439-96-5)	2,400		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	92,200		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	41.8		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609031-06

Station ID: GW-10

Batch: B6I2713

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	29.0		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-06

Station ID: GW-10

Batch: B6I2714

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 37.336ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-06

Station ID: GW-10

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	52.2		104	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	48.4		96.9	85-113	"	"
<i>4-Bromofluorobenzene</i>	48.6		97.3	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	2.0	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	180	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	6.1		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	50.7		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-06

Station ID: GW-10

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	3.0		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.



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Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609031-06

Station ID: GW-10

Batch: B6J0411

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	U		0.060	1	1	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609031-06

Station ID: GW-10

Batch: B6J0412

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609031-07

Station ID: GW-10-D

Batch: B6I2712

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	482		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	32,100		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	12,500		25.0	"	"	"
Magnesium (7439-95-4)	27,200		150	"	"	"
Manganese (7439-96-5)	2,370		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	91,100		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	40.8		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609031-07

Station ID: GW-10-D

Batch: B6I2713

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	29.1		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-07

Station ID: GW-10-D

Batch: B6I2714

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 37.228ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-07

Station ID: GW-10-D

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	51.6		103	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	53.7		107	85-113	"	"
<i>4-Bromofluorobenzene</i>	49.4		98.8	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.7	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	200	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	6.5		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	56.0		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-07

Station ID: GW-10-D

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	3.1		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609031-07

Station ID: GW-10-D

Batch: B6J0411

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	U		0.060	1	1	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609031-07

Station ID: GW-10-D

Batch: B6J0412

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Phone:(281)983-2100 Fax:(281)983-2248

EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-08

Station ID: GW-12

Batch: B6I2714

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 36.852ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-08

Station ID: GW-12

Batch: B6I2805

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	53.6		107	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	54.1		108	85-113	"	"
<i>4-Bromofluorobenzene</i>	45.0		90.0	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.7	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	6.5	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-08

Station ID: GW-12

Batch: B6I2805

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Phone:(281)983-2100 Fax:(281)983-2248

Metals by CLP ILM05.3 - ICP

Lab ID: 1609031-09

Station ID: GW-13-119

Batch: B6I2712

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	134		100	1	09/28/16	10/21/16
Barium (7440-39-3)	59.3		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	72,300		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	234		25.0	"	"	"
Magnesium (7439-95-4)	28,700		150	"	"	"
Manganese (7439-96-5)	5.5		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	1,810		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	29,500		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609031-09

Station ID: GW-13-119

Batch: B6I2713

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-09

Station ID: GW-13-119

Batch: B6I2714

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 37.202ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-09

Station ID: GW-13-119

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	46.8		93.6	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	50.7		101	85-113	"	"
<i>4-Bromofluorobenzene</i>	44.0		87.9	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.0	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	8.6	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Region 6 Laboratory

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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-09

Station ID: GW-13-119

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	5.9		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.



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Phone:(281)983-2100 Fax:(281)983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609031-09

Station ID: GW-13-119

Batch: B6J0411

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	1.45		0.120	1	2	09/29/16	09/29/16



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Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609031-09

Station ID: GW-13-119

Batch: B6J0412

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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Metals by CLP ILM05.3 - ICP

Lab ID: 1609031-10

Station ID: GW-14

Batch: B6I2712

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	09/28/16	10/21/16
Barium (7440-39-3)	69.1		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	20,100		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	67.6		25.0	"	"	"
Magnesium (7439-95-4)	8,480		150	"	"	"
Manganese (7439-96-5)	17.0		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	1,340		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	17,800		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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Metals by CLP ILM05.3 - ICP/MS

Lab ID: 1609031-10

Station ID: GW-14

Batch: B6I2713

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	09/28/16	10/07/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-10

Station ID: GW-14

Batch: B6I2714

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 37.336ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-10

Station ID: GW-14

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	49.3		98.7	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	52.2		104	85-113	"	"
<i>4-Bromofluorobenzene</i>	45.7		91.5	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.2	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	U		5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methyleyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-10

Station ID: GW-14

Batch: B6I2805

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Phone:(281)983-2100 Fax:(281)983-2248

Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609031-10

Station ID: GW-14

Batch: B6J0411

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	2.95		0.120	1	2	09/29/16	09/29/16



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Phone:(281)983-2100 Fax:(281)983-2248

Metals by CLP ILM05.3 - CVAAS

Lab ID: 1609031-10

Station ID: GW-14

Batch: B6J0412

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	10/04/16	10/05/16



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-11

Station ID: GW-17

Batch: B6I2714

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 37.369ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-11

Station ID: GW-17

Batch: B6I2805

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	49.7		99.4	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	51.6		103	85-113	"	"
<i>4-Bromofluorobenzene</i>	42.9		85.7	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.7	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	5.8	FB, J	5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methylcyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-11

Station ID: GW-17

Batch: B6I2805

Date Collected: 09/21/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-12

Station ID: TB-160920-1

Batch: B6I2805

Date Collected: 09/20/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>1,2-Dichloroethane-d4</i>	55.2		110	86-117	09/27/16	09/27/16
<i>Toluene-d8</i>	54.8		110	85-113	"	"
<i>4-Bromofluorobenzene</i>	47.6		95.2	73-115	"	"

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		1.0	1	09/27/16	09/27/16
Chloromethane (74-87-3)	U		1.0	"	"	"
Vinyl chloride (75-01-4)	U		1.0	"	"	"
Bromomethane (74-83-9)	1.6	B	1.0	"	"	"
Chloroethane (75-00-3)	U		1.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		1.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		1.0	"	"	"
Carbon disulfide (75-15-0)	U		1.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		1.0	"	"	"
Acetone (67-64-1)	U		5.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		1.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		1.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		1.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		1.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		1.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		1.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		1.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		1.0	"	"	"
Cyclohexane (110-82-7)	U		1.0	"	"	"
Carbon tetrachloride (56-23-5)	U		1.0	"	"	"
Benzene (71-43-2)	U		1.0	"	"	"
Trichloroethene (79-01-6)	U		1.0	"	"	"
Methyleyclohexane (108-87-2)	U		1.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		1.0	"	"	"
Bromodichloromethane (75-27-4)	U		1.0	"	"	"



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Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1609031-12

Station ID: TB-160920-1

Batch: B6I2805

Date Collected: 09/20/16

Sample Type: Liquid

Sample Vol: 5ml

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		1.0	1	09/27/16	09/27/16
trans-1,3-Dichloropropene (10061-02-6)	U		1.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		1.0	"	"	"
Dibromochloromethane (124-48-1)	U		1.0	"	"	"
Bromoform (75-25-2)	U		1.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		1.0	"	"	"
Tetrachloroethene (127-18-4)	U		1.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		1.0	"	"	"
Chlorobenzene (108-90-7)	U		1.0	"	"	"
Ethylbenzene (100-41-4)	U		1.0	"	"	"
meta-/para-Xylene (na)	U		2.0	"	"	"
ortho-Xylene (95-47-6)	U		1.0	"	"	"
Styrene (100-42-5)	U		1.0	"	"	"
Isopropylbenzene (98-82-8)	U		1.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		1.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		1.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		1.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		1.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		1.0	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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EDB/DBCP by Method 8011 - GC/ECD

Lab ID: 1609031-13

Station ID: TB-160922-1

Batch: B6I2714

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 36.685ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,2-Dibromo-3-chloropropane (96-12-8)	U		0.019	1	09/28/16	09/28/16
1,2-Dibromoethane (106-93-4)	U		0.019	"	"	"



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10625 Fallstone Road, Houston, TX 77099
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Hexavalent Chromium by Modified EPA Method 218.7 - IC

Lab ID: 1609031-14

Station ID: GW-09-Cr6

Batch: B6J0411

Date Collected: 09/22/16

Sample Type: Liquid

Sample Vol: 10ml; Final Vol: 10ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Prep Dil	Anal Dil	Prepared	Analyzed
Hexavalent Chromium (1854-02-99)	3.22		0.120	1	2	09/29/16	09/29/16

jm



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Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

Batch: B6I2805

Sample Type: Liquid

Blank (B6I2805-BLK1)

Prepared: 9/27/2016 Analyzed: 9/27/2016

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	49.4		50.0	98.8	86-117
Toluene-d8	48.4		50.0	96.9	85-113
4-Bromofluorobenzene	42.2		50.0	84.3	73-115

Blank (B6I2805-BLK1)

Prepared: 9/27/2016 Analyzed: 9/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		1.0
Chloromethane	U		1.0
Vinyl chloride	U		1.0
Bromomethane	1.6		1.0
Chloroethane	U		1.0
Trichlorofluoromethane	U		1.0
1,1-Dichloroethene	U		1.0
Carbon disulfide	U		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		1.0
Acetone	U		5.0
Methylene chloride	U		2.0
Methyl acetate	U		1.0
trans-1,2-Dichloroethene	U		1.0
cis-1,2-Dichloroethene	U		1.0
Methyl tert-butyl ether	U		1.0
1,1-Dichloroethane	U		1.0
2-Butanone	U		5.0
Chloroform	U		1.0
1,2-Dichloroethane	U		1.0
1,1,1-Trichloroethane	U		1.0
Cyclohexane	U		1.0
Carbon tetrachloride	U		1.0
Benzene	U		1.0



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Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

Batch: B6I2805

Sample Type: Liquid

Blank (B6I2805-BLK1)

Prepared: 9/27/2016 Analyzed: 9/27/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		1.0
Methylcyclohexane	U		1.0
1,2-Dichloropropane	U		1.0
Bromodichloromethane	U		1.0
cis-1,3-Dichloropropene	U		1.0
trans-1,3-Dichloropropene	U		1.0
1,1,2-Trichloroethane	U		1.0
Dibromochloromethane	U		1.0
Bromoform	U		1.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		1.0
Tetrachloroethene	U		1.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		1.0
Chlorobenzene	U		1.0
Ethylbenzene	U		1.0
meta-/para-Xylene	U		2.0
ortho-Xylene	U		1.0
Styrene	U		1.0
Isopropylbenzene	U		1.0
1,1,2,2-Tetrachloroethane	U		1.0
1,3-Dichlorobenzene	U		1.0
1,4-Dichlorobenzene	U		1.0
1,2-Dichlorobenzene	U		1.0
1,2-Dibromo-3-chloropropane	U		1.0
1,2,4-Trichlorobenzene	U		1.0



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Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

Batch: B612805

Sample Type: Liquid

LCS (B612805-BS1)

Prepared: 9/27/2016 Analyzed: 9/27/2016

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	53.3		50.0	107	86-117
Toluene-d8	53.6		50.0	107	85-113
4-Bromofluorobenzene	53.8		50.0	108	73-115

LCS (B612805-BS1)

Prepared: 9/27/2016 Analyzed: 9/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	46.0		1.0	50.0	92.1	69-132
Chloromethane	50.4		1.0	50.0	101	73-130
Vinyl chloride	51.4		1.0	50.0	103	76-130
Bromomethane	59.9		1.0	50.0	120	75-129
Chloroethane	66.0		1.0	50.0	132 #	75-121
Trichlorofluoromethane	56.5		1.0	50.0	113	79-130
1,1-Dichloroethene	53.9		1.0	50.0	108	76-127
Carbon disulfide	60.0		1.0	50.0	120	74-122
1,1,2-Trichloro-1,2,2-trifluoroethane	55.2		1.0	50.0	110	79-126
Acetone	66.5		5.0	50.0	133	44-140
Methylene chloride	54.1		2.0	50.0	108	79-122
Methyl acetate	52.2		1.0	50.0	104	78-118
trans-1,2-Dichloroethene	54.0		1.0	50.0	108	78-123
cis-1,2-Dichloroethene	53.2		1.0	50.0	106	80-120
Methyl tert-butyl ether	52.6		1.0	50.0	105	78-124
1,1-Dichloroethane	55.7		1.0	50.0	111	80-122
2-Butanone	58.8		5.0	50.0	118	71-127
Chloroform	52.3		1.0	50.0	105	81-121
1,2-Dichloroethane	54.3		1.0	50.0	109	80-121
1,1,1-Trichloroethane	54.8		1.0	50.0	110	80-120
Cyclohexane	51.6		1.0	50.0	103	77-120
Carbon tetrachloride	53.2		1.0	50.0	106	78-121
Benzene	53.3		1.0	50.0	107	81-119



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Region 6 Laboratory

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Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

Batch: B6I2805

Sample Type: Liquid

LCS (B6I2805-BS1)

Prepared: 9/27/2016 Analyzed: 9/27/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Trichloroethene	54.1		1.0	50.0	108	80-120
Methylcyclohexane	52.5		1.0	50.0	105	79-122
1,2-Dichloropropane	55.9		1.0	50.0	112	81-121
Bromodichloromethane	52.4		1.0	50.0	105	80-121
cis-1,3-Dichloropropene	53.9		1.0	50.0	108	79-119
trans-1,3-Dichloropropene	51.2		1.0	50.0	102	78-119
1,1,2-Trichloroethane	51.7		1.0	50.0	103	80-120
Dibromochloromethane	52.0		1.0	50.0	104	80-118
Bromoform	49.7		1.0	50.0	99.4	79-119
4-Methyl-2-pentanone	49.1		5.0	50.0	98.2	77-121
Toluene	53.8		1.0	50.0	108	81-118
Tetrachloroethene	53.9		1.0	50.0	108	80-120
2-Hexanone	52.8		5.0	50.0	106	77-122
1,2-Dibromoethane	53.0		1.0	50.0	106	81-118
Chlorobenzene	53.6		1.0	50.0	107	81-118
Ethylbenzene	53.4		1.0	50.0	107	80-118
meta-/para-Xylene	108		2.0	100	108	81-117
ortho-Xylene	52.2		1.0	50.0	104	81-118
Styrene	51.9		1.0	50.0	104	79-118
Isopropylbenzene	52.0		1.0	50.0	104	74-124
1,1,2,2-Tetrachloroethane	48.6		1.0	50.0	97.2	79-119
1,3-Dichlorobenzene	52.0		1.0	50.0	104	81-118
1,4-Dichlorobenzene	51.4		1.0	50.0	103	80-117
1,2-Dichlorobenzene	52.5		1.0	50.0	105	79-119
1,2-Dibromo-3-chloropropane	48.6		1.0	50.0	97.1	77-123
1,2,4-Trichlorobenzene	51.9		1.0	50.0	104	78-128



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Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

Batch: B6I2805

Sample Type: Liquid

Matrix Spike (B6I2805-MS1)

Source: 1609020-02

Prepared: 9/27/2016 Analyzed: 9/27/2016

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	53.2		50.0	106	86-117
Toluene-d8	51.3		50.0	103	85-113
4-Bromofluorobenzene	45.4		50.0	90.9	73-115

Matrix Spike (B6I2805-MS1)

Source: 1609020-02

Prepared: 9/27/2016 Analyzed: 9/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
1,1-Dichloroethene	47.7		1.0	50.0		95.4	72-134
Benzene	48.5		1.0	50.0		97.0	79-122
Trichloroethene	51.5		1.0	50.0		103	79-126
Toluene	52.5		1.0	50.0		105	81-122
Chlorobenzene	50.4		1.0	50.0		101	82-121



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Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

Batch: B6I2805

Sample Type: Liquid

Matrix Spike Dup (B6I2805-MSD1)

Source: 1609020-02

Prepared: 9/27/2016 Analyzed: 9/27/2016

Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>1,2-Dichloroethane-d4</i>	54.8		50.0	110	86-117
<i>Toluene-d8</i>	53.0		50.0	106	85-113
<i>4-Bromofluorobenzene</i>	46.1		50.0	92.3	73-115

Matrix Spike Dup (B6I2805-MSD1)

Source: 1609020-02

Prepared: 9/27/2016 Analyzed: 9/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1-Dichloroethene	51.4		1.0	50.0		103	72-134	7.43	21
Benzene	53.1		1.0	50.0		106	79-122	8.94	16
Trichloroethene	52.8		1.0	50.0		106	79-126	2.57	14
Toluene	54.9		1.0	50.0		110	81-122	4.49	13
Chlorobenzene	53.8		1.0	50.0		108	82-121	6.45	10



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EDB/DBCP by Method 8011 - GC/ECD - Quality Control

Batch: B6I2714

Sample Type: Liquid

Blank (B6I2714-BLK1)

Prepared: 9/28/2016 Analyzed: 9/28/2016

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit
1,2-Dibromo-3-chloropropane	U		0.020
1,2-Dibromoethane	U		0.020

LCS (B6I2714-BS1)

Prepared: 9/28/2016 Analyzed: 9/28/2016

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
1,2-Dibromo-3-chloropropane	0.225		0.020	0.250	90.1	60-140
1,2-Dibromoethane	0.251		0.020	0.250	100	60-140

LCS Dup (B6I2714-BSD1)

Prepared: 9/28/2016 Analyzed: 9/28/2016

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits	RPD RPD	RPD Limit
1,2-Dibromo-3-chloropropane	0.244		0.020	0.250	97.8	60-140	8.20	30
1,2-Dibromoethane	0.254		0.020	0.250	102	60-140	1.38	30

Matrix Spike (B6I2714-MS1)

Source: 1609020-02

Prepared: 9/28/2016 Analyzed: 9/28/2016

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
1,2-Dibromo-3-chloropropane	0.224		0.019	0.237		94.6	60-140
1,2-Dibromoethane	0.232		0.019	0.237		97.7	60-140



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EDB/DBCP by Method 8011 - GC/ECD - Quality Control

Batch: B6I2714

Sample Type: Liquid

Matrix Spike Dup (B6I2714-MSD1)

Source: 1609020-02

Prepared: 9/28/2016 Analyzed: 9/28/2016

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane	0.200		0.019	0.238		84.2	60-140	11.3	30
1,2-Dibromoethane	0.225		0.019	0.238		94.6	60-140	2.90	30



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Hexavalent Chromium by Modified EPA Method 218.7 - IC - Quality Control

Batch: B6J0411

Sample Type: Liquid

Blank (B6J0411-BLK1)

Prepared: 9/29/2016 Analyzed: 9/29/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Hexavalent Chromium	U		0.060

Matrix Spike (B6J0411-MS1)

Source: 1609031-09

Prepared: 9/29/2016 Analyzed: 9/29/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Hexavalent Chromium	5.73			5.00	0.724	100	85-115

Matrix Spike Dup (B6J0411-MSD1)

Source: 1609031-09

Prepared: 9/29/2016 Analyzed: 9/29/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Hexavalent Chromium	5.76			5.00	0.724	101	85-115	0.56	15



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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6I2712

Sample Type: Liquid

Blank (B6I2712-BLK1)

Prepared: 9/28/2016 Analyzed: 10/21/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Aluminum	U		100
Barium	U		10.0
Beryllium	U		5.0
Cadmium	U		5.0
Calcium	U		150
Chromium	U		10.0
Cobalt	U		20.0
Copper	U		20.0
Iron	U		25.0
Magnesium	U		150
Manganese	U		5.0
Nickel	U		20.0
Potassium	U		1,000
Silver	U		10.0
Sodium	U		500
Vanadium	U		20.0
Zinc	U		20.0

LCS (B6I2712-BS1)

Prepared: 9/28/2016 Analyzed: 10/21/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	927		100	1,000	92.7	75-125
Barium	1,810		10.0	2,000	90.4	75-125
Beryllium	47.7		5.0	50.0	95.3	75-125
Cadmium	47.4		5.0	50.0	94.8	75-125
Calcium	89,600		150	100,000	89.6	75-125
Chromium	367		10.0	400	91.8	75-125
Cobalt	181		20.0	200	90.7	75-125
Copper	371		20.0	400	92.8	75-125
Iron	914		25.0	1,000	91.4	75-125



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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6I2712

Sample Type: Liquid

LCS (B6I2712-BS1)

Prepared: 9/28/2016 Analyzed: 10/21/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Magnesium	92,100		150	100,000	92.1	75-125
Manganese	361		5.0	400	90.1	75-125
Nickel	349		20.0	400	87.4	75-125
Potassium	93,400		1,000	100,000	93.4	75-125
Silver	47.1		10.0	50.0	94.2	75-125
Sodium	92,200		500	100,000	92.2	75-125
Vanadium	384		20.0	400	95.9	75-125
Zinc	900		20.0	1,000	90.0	75-125

Matrix Spike (B6I2712-MS1)

Source: 1609020-02

Prepared: 9/28/2016 Analyzed: 10/21/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	880		100	1,000	3.6	87.6	75-125
Barium	1,740		10.0	2,000	22.2	86.0	75-125
Beryllium	45.5		5.0	50.0	1.2	88.7	75-125
Cadmium	44.9		5.0	50.0	0.8	88.1	75-125
Calcium	123,000		150	100,000	42,200	81.3	75-125
Chromium	350		10.0	400	2.7	86.9	75-125
Cobalt	172		20.0	200	4.8	83.7	75-125
Copper	379		20.0	400	11.2	92.0	75-125
Iron	884		25.0	1,000	20.1	86.4	75-125
Magnesium	103,000		150	100,000	16,600	86.5	75-125
Manganese	343		5.0	400	1.7	85.3	75-125
Nickel	332		20.0	400	5.4	81.6	75-125
Potassium	90,800		1,000	100,000	1,060	89.8	75-125
Silver	45.6		10.0	50.0	4.1	83.0	75-125
Sodium	125,000		500	100,000	39,100	86.3	75-125
Vanadium	367		20.0	400	6.9	90.0	75-125
Zinc	868		20.0	1,000	8.5	86.0	75-125



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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6I2712

Sample Type: Liquid

Matrix Spike (B6I2712-MS2)

Source: 1609031-10

Prepared: 9/28/2016 Analyzed: 10/21/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	
Aluminum	973		100	1,000	51.1	92.2	75-125
Barium	1,850		10.0	2,000	69.1	89.0	75-125
Beryllium	47.0		5.0	50.0	1.3	91.4	75-125
Cadmium	46.5		5.0	50.0	0.9	91.3	75-125
Calcium	108,000		150	100,000	20,100	88.0	75-125
Chromium	366		10.0	400	6.6	89.9	75-125
Cobalt	178		20.0	200	5.1	86.3	75-125
Copper	370		20.0	400	6.2	91.1	75-125
Iron	953		25.0	1,000	67.6	88.6	75-125
Magnesium	99,700		150	100,000	8,480	91.3	75-125
Manganese	370		5.0	400	17.0	88.2	75-125
Nickel	344		20.0	400	5.9	84.6	75-125
Potassium	94,400		1,000	100,000	1,340	93.1	75-125
Silver	46.6		10.0	50.0	4.5	84.3	75-125
Sodium	110,000		500	100,000	17,800	92.0	75-125
Vanadium	378		20.0	400	5.2	93.3	75-125
Zinc	895		20.0	1,000	12.2	88.2	75-125

Matrix Spike Dup (B6I2712-MSD1)

Source: 1609020-02

Prepared: 9/28/2016 Analyzed: 10/21/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Aluminum	882		100	1,000	3.6	87.8	75-125	0.24 20
Barium	1,730		10.0	2,000	22.2	85.4	75-125	0.60 20
Beryllium	44.8		5.0	50.0	1.2	87.2	75-125	1.65 20
Cadmium	44.3		5.0	50.0	0.8	86.8	75-125	1.43 20
Calcium	123,000		150	100,000	42,200	80.5	75-125	0.59 20
Chromium	347		10.0	400	2.7	86.0	75-125	1.02 20
Cobalt	171		20.0	200	4.8	82.9	75-125	0.93 20
Copper	377		20.0	400	11.2	91.3	75-125	0.71 20
Iron	878		25.0	1,000	20.1	85.8	75-125	0.76 20
Magnesium	102,000		150	100,000	16,600	85.8	75-125	0.69 20



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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6I2712

Sample Type: Liquid

Matrix Spike Dup (B6I2712-MSD1)

Source: 1609020-02

Prepared: 9/28/2016 Analyzed: 10/21/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Manganese	341		5.0	400	1.7	84.8	75-125	0.57	20
Nickel	328		20.0	400	5.4	80.7	75-125	1.08	20
Potassium	89,800		1,000	100,000	1,060	88.7	75-125	1.18	20
Silver	45.4		10.0	50.0	4.1	82.6	75-125	0.47	20
Sodium	124,000		500	100,000	39,100	85.3	75-125	0.82	20
Vanadium	364		20.0	400	6.9	89.3	75-125	0.75	20
Zinc	863		20.0	1,000	8.5	85.4	75-125	0.63	20

Matrix Spike Dup (B6I2712-MSD2)

Source: 1609031-10

Prepared: 9/28/2016 Analyzed: 10/21/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Aluminum	960		100	1,000	51.1	90.9	75-125	1.41	20
Barium	1,820		10.0	2,000	69.1	87.4	75-125	1.79	20
Beryllium	46.5		5.0	50.0	1.3	90.3	75-125	1.18	20
Cadmium	45.5		5.0	50.0	0.9	89.2	75-125	2.27	20
Calcium	107,000		150	100,000	20,100	86.5	75-125	1.41	20
Chromium	356		10.0	400	6.6	87.4	75-125	2.76	20
Cobalt	174		20.0	200	5.1	84.5	75-125	2.04	20
Copper	363		20.0	400	6.2	89.3	75-125	1.96	20
Iron	940		25.0	1,000	67.6	87.3	75-125	1.37	20
Magnesium	98,500		150	100,000	8,480	90.1	75-125	1.20	20
Manganese	363		5.0	400	17.0	86.6	75-125	1.75	20
Nickel	336		20.0	400	5.9	82.6	75-125	2.37	20
Potassium	93,600		1,000	100,000	1,340	92.3	75-125	0.83	20
Silver	45.6		10.0	50.0	4.5	82.2	75-125	2.22	20
Sodium	108,000		500	100,000	17,800	90.6	75-125	1.29	20
Vanadium	373		20.0	400	5.2	92.0	75-125	1.30	20
Zinc	880		20.0	1,000	12.2	86.8	75-125	1.63	20



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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6I2713

Sample Type: Liquid

Blank (B6I2713-BLK1)

Prepared: 9/28/2016 Analyzed: 10/7/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Antimony	U		2.0
Arsenic	U		2.0
Lead	U		2.0
Selenium	U		4.0
Thallium	U		2.0

LCS (B6I2713-BS1)

Prepared: 9/28/2016 Analyzed: 10/7/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Antimony	192		2.0	200	96.1	85-115
Arsenic	189		2.0	200	94.7	85-115
Lead	192		2.0	200	95.9	85-115
Selenium	188		4.0	200	94.1	85-115
Thallium	191		2.0	200	95.7	85-115

Matrix Spike (B6I2713-MS1)

Source: 1609020-02

Prepared: 9/28/2016 Analyzed: 10/7/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Antimony	205		2.0	200	0.05	103	70-130
Arsenic	204		2.0	200	0.3	102	70-130
Lead	207		2.0	200	0.5	103	70-130
Selenium	209		4.0	200	1.6	104	70-130
Thallium	201		2.0	200	0.4	101	70-130

Matrix Spike (B6I2713-MS2)

Source: 1609031-10

Prepared: 9/28/2016 Analyzed: 10/7/2016



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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6I2713

Sample Type: Liquid

Matrix Spike (B6I2713-MS2)

Source: 1609031-10

Prepared: 9/28/2016 Analyzed: 10/7/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Antimony	193		2.0	200	0.06	96.7	70-130
Arsenic	194		2.0	200		97.0	70-130
Lead	193		2.0	200	0.4	96.5	70-130
Selenium	192		4.0	200	0.1	96.1	70-130
Thallium	191		2.0	200	0.03	95.5	70-130

Matrix Spike Dup (B6I2713-MSD1)

Source: 1609020-02

Prepared: 9/28/2016 Analyzed: 10/7/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Antimony	200		2.0	200	0.05	100	70-130	2.54	20
Arsenic	198		2.0	200	0.3	98.9	70-130	3.05	20
Lead	202		2.0	200	0.5	101	70-130	2.79	20
Selenium	200		4.0	200	1.6	99.4	70-130	4.10	20
Thallium	197		2.0	200	0.4	98.2	70-130	2.27	20

Matrix Spike Dup (B6I2713-MSD2)

Source: 1609031-10

Prepared: 9/28/2016 Analyzed: 10/7/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Antimony	199		2.0	200	0.06	99.5	70-130	2.81	20
Arsenic	198		2.0	200		99.0	70-130	2.11	20
Lead	197		2.0	200	0.4	98.4	70-130	1.96	20
Selenium	197		4.0	200	0.1	98.3	70-130	2.25	20
Thallium	194		2.0	200	0.03	97.0	70-130	1.54	20



Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6J0412

Sample Type: Liquid

Blank (B6J0412-BLK1)

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

Blank (B6J0412-BLK2)

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

Blank (B6J0412-BLK3)

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

Blank (B6J0412-BLK4)

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

LCS (B6J0412-BS1)

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets



Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6J0412

Sample Type: Liquid

LCS (B6J0412-BS1)

Prepared: 10/4/2016 Analyzed: 10/5/2016

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Mercury	1.13		0.200	1.00	113	80-120

Matrix Spike (B6J0412-MS1)

Source: 1609020-02

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Mercury	1.13		0.200	1.00	0.021	111	75-125

Matrix Spike (B6J0412-MS2)

Source: 1609031-10

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Mercury	1.16		0.200	1.00	0.167	99.3	75-125

Matrix Spike Dup (B6J0412-MSD1)

Source: 1609020-02

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	1.11		0.200	1.00	0.021	109	75-125	1.79	20

Matrix Spike Dup (B6J0412-MSD2)

Source: 1609031-10

Prepared: 10/4/2016 Analyzed: 10/5/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	1.22		0.200	1.00	0.167	105	75-125	5.04	20



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

SURROGATE SUMMARY REPORT

VOA CLP Low Level

Liquid

LAB NUMBER	1,2-DCE-d4	TOL-d8	4-BFB
1609020-01	109	106	93.1
1609020-02	101	98.4	85.6
1609020-03	98.7	96.3	85.5
1609020-04	107	109	93.2
1609031-01	102	101	85.9
1609031-02	97.8	97.3	83.2
1609031-03	103	104	89.7
1609031-04	98.1	99.3	83.4
1609031-05	102	102	85.4
1609031-06	104	96.9	97.3
1609031-07	103	107	98.8
1609031-08	107	108	90.0
1609031-09	93.6	101	87.9
1609031-10	98.7	104	91.5
1609031-11	99.4	103	85.7
1609031-12	110	110	95.2
B6I2805-BLK1	98.8	96.9	84.3
B6I2805-BS1	107	107	108
B6I2805-MS1	106	103	90.9
B6I2805-MSD1	110	106	92.3

QC LIMITS

1,2-DCE-d4	=	1,2-Dichloroethane-d4	86 - 117
TOL-d8	=	Toluene-d8	85 - 113
4-BFB	=	4-Bromofluorobenzene	73 - 115



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Results

from

TCEQ Sugar Land Laboratory
12553 W. Airport Blvd
Sugar Land, TX 77478



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Miscellaneous Results
(TCEQ)

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Cyanide, Total mg/L	Analyte Qualifier	Specific Method	Date Analyzed
1609020-01	GW-03	<0.04		335.4	09/29/16
1609020-02	GW-04	<0.04		335.4	09/29/16
1609020-03	GW-06	<0.04		335.4	09/29/16
1609027-01	GW-07	<0.04		335.4	09/29/16
1609027-02	GW-09	<0.04		335.4	09/29/16
1609027-03	GW-12	<0.04		335.4	09/29/16
1609027-04	GW-17	<0.04		335.4	09/29/16
1609031-01	ER-160922	<0.04		335.4	09/29/16
1609031-03	GW-08	<0.04		335.4	09/29/16
1609031-04	GW-08-D	<0.04		335.4	09/29/16
1609031-06	GW-10	<0.04		335.4	09/29/16
1609031-07	GW-10-D	<0.04		335.4	09/29/16
1609031-09	GW-13-119	<0.04		335.4	09/29/16
1609031-10	GW-14	<0.04		335.4	09/29/16



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
FB	Field Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated field, trip, or equipment blank. Presence in the sample is therefore suspect.
B	Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion and/or analysis blank. Presence in the sample is therefore suspect.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
ABN	Acid Base Neutrals (Semivolatile Compounds)
AES	Atomic Emission Spectrometer
BS	Blank Spike
CVAA	Cold Vapor Atomic Absorption
DCB	Decachlorobiphenyl
ECD	Electron Capture Detector
GC	Gas Chromatograph
ICP	Inductively Coupled Plasma
ISTD	Internal Standard
LCS	Laboratory Control Sample
MS	Mass Spectrometer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
PCB	Polychlorinatedbiphenyl



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

RL	Reporting Limit
RT	Retention Time
RPD	Relative Percent Difference
TCLP	Toxicity Characteristic Leaching Procedure
TCMX	Tetrachloro-meta-xylene
U	Undetected
VOA	Volatile Organic Analysis

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

AirbillNo: 7772 6100 6977

CHAIN OF CUSTODY RECORD

Case #:

No: 6-091916-133606-0001

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137

[illegible]

Sample(s) to be used for Lab QC: GW-04 Tag 1010, GW-04 Tag 1011

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: EDB=EDB, VOA=VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	 EA	9-19-16/1800	 EA	9-19-16/1800	
	 EA	9-19-16/2000	FedEx (carrier)	9-19-16/2000	
				9/20/16 9:40	

Temp Blank = 1°C

AirbillNo: 7772 6104 2666

CHAIN OF CUSTODY RECORD

Case #

No: 6-091916-134400-0003

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137


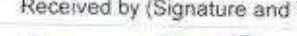

[illegible]

Sample(s) to be used for Lab QC: GW-04 Tag 1012, GW-04 Tag 1013, GW-04 Tag 1014

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Hex Cr=Hexavalent Chromium, TM + Hg=Total Metals + Hg, CN=Cyanide

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	 Adam Engler EA	9-19-16/1800	 Adam Engler EA	9-19-16/1800	
		9-19-16/2000	FedEx (courier)  J. Cross	9-19-16/2000 9/26/16 9:40	

Temp Blank = 1.00

USEPA CLP COC (LAB COPY)

Date Shipped: 9/21/2016

Carrier Name: FedEx

Airbill No: 7772 8675 9826

CHAIN OF CUSTODY RECORD

Case #:

No: 6-092016-083652-0006

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137



Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
GW-17		Ground Water/ Ryan Guth	Grab	Hex Cr(35), TM + Hg(35), CN(35)	2047 (Ice to 4C & NH ₄ OH/(NH ₄) ₂ SO ₄), 2048 (Ice to 4C & HNO ₃), 2049 (Ice to 4C & NaOH) (3)	GW-17	09/21/2016 17:36	
GW-07		Ground Water/ Jason Stroup	Grab	Hex Cr(35), TM + Hg(35), CN(35)	1022 (Ice to 4C & NH ₄ OH/(NH ₄) ₂ SO ₄), 1023 (Ice to 4C & HNO ₃), 1024 (Ice to 4C & NaOH) (3)	GW-07	09/21/2016 10:59	
GW-09		Ground Water/ Ryan Guth	Grab	Hex Cr(35), TM + Hg(35), CN(35)	1032 (Ice to 4C & NH ₄ OH/(NH ₄) ₂ SO ₄), 1033 (Ice to 4C & HNO ₃), 1034 (Ice to 4C & NaOH) (3)	GW-09	09/21/2016 16:51	
GW-12		Ground Water/ Jason Stroup	Grab	Hex Cr(35), TM + Hg(35), CN(35)	1042 (Ice to 4C & NH ₄ OH/(NH ₄) ₂ SO ₄), 1043 (Ice to 4C & HNO ₃), 1044 (Ice to 4C & NaOH) (3)	GW-12	09/21/2016 13:32	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Hex Cr=Hexavalent Chromium, TM + Hg=Total Metals + Hg, CN=Cyanide

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		EA 9-21-16/1800	Aaron Bagher	EA 9-21-16/1800	
		EA 9-21-16/1900	Aaron Bagher	EA 9-21-16/1900	
		EA 9-21-16/2000	FedEx (Carrier)	9-21-16/2000	
				9/22/16	
				9:20	

Temp Blank = 1°C

Airbill No. 7772 9063 8703

CHAIN OF CUSTODY RECORD

Case #:

No: 6-091916-134413-0004

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137



[illegible]

Special Instructions

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	 Aaron Byler	EA 9-22-16/ 1600	Aaron Byler	EA 9-22-16/ 1600	
		EA 9-22-16/ 1700	Aaron Byler	EA 9-22-16/ 1700	
		EA 9-22-16/ 1800	Felix (carrier)	9-22-16/ 1800	
				9/23/16 9:05	

$10 \text{ m} \beta \text{ l a n k} = 100 \text{ g:os}$

USEPA CLP COC (LAB COPY)

DateShipped: 9/22/2016

CarrierName: FedEx

AirbillNo: 7772 9063 8703

CHAIN OF CUSTODY RECORD

Case #:

No: 6-091916-134413-0004

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137


Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ER-160922		Water/ Jason Stroup	Grab	VOA(35)	1051 (Ice to 4C & HCL) (3)	ER-160922	09/22/2016 13:40	
GW-07		Ground Water/ Jason Stroup	Grab	VOA(35)	1021 (Ice to 4C & HCL) (3)	GW-07	09/21/2016 10:59	
GW-08		Ground Water/ Aaron Bugher	Grab	VOA(35)	1026 (Ice to 4C & HCL) (3)	GW-08	09/22/2016 14:25	
GW-08-D		Ground Water/ Aaron Bugher	Grab	VOA(35)	1066 (Ice to 4C & HCL) (3)	GW-08-D	09/22/2016 14:25	
GW-09		Ground Water/ Ryan Guth	Grab	VOA(35)	1031 (Ice to 4C & HCL) (3)	GW-09	09/21/2016 16:51	
GW-10		Ground Water/ Jason Stroup	Grab	VOA(35)	1036 (Ice to 4C & HCL) (3)	GW-10	09/22/2016 15:23	
GW-10-D		Ground Water/ Jason Stroup	Grab	VOA(35)	1061 (Ice to 4C & HCL) (3)	GW-10-D	09/22/2016 15:23	
GW-12		Ground Water/ Jason Stroup	Grab	VOA(35)	1041 (Ice to 4C & HCL) (3)	GW-12	09/21/2016 13:32	
GW-13-119		Ground Water/ Jason Stroup	Grab	VOA(35)	1001 (Ice to 4C & HCL) (3)	GW-13-119	09/22/2016 12:29	
GW-14		Ground Water/ Jason Stroup	Grab	VOA(35)	1046 (Ice to 4C & HCL) (3)	GW-14	09/22/2016 10:03	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		EA 9-22-16/1600	Aaron Bugher	EA 9-22-16/1600	
		EA 9-22-16/1700	Aaron Bugher	EA 9-22-16/1700	
	Aaron Bugher	EA 9-22-16/1800	FedEx (courier)	9-22-16 1800	
			J Cross	9/23/16 9:05	

Temp Blank = 1°C

USEPA CLP COC (LAB COPY)

DateShipped: 9/22/2016

CarrierName: FedEx

AirbillNo: 7772 9065 8819

CHAIN OF CUSTODY RECORD

Case #:

No: 6-092016-083658-0007

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137


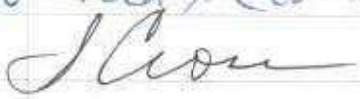
Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ER-160922		Water/ Jason Stroup	Grab	TM + Hg(35)	1053 (Ice to 4C & HNO3) (1)	ER-160922	09/22/2016 13:40	
GW-08		Ground Water/ Aaron Bugher	Grab	TM + Hg(35)	1028 (Ice to 4C & HNO3) (1)	GW-08	09/22/2016 14:25	
GW-08-D		Ground Water/ Aaron Bugher	Grab	TM + Hg(35)	1068 (Ice to 4C & HNO3) (1)	GW-08-D	09/22/2016 14:25	
GW-10		Ground Water/ Jason Stroup	Grab	TM + Hg(35)	1038 (Ice to 4C & HNO3) (1)	GW-10	09/22/2016 15:23	
GW-10-D		Ground Water/ Jason Stroup	Grab	TM + Hg(35)	1063 (Ice to 4C & HNO3) (1)	GW-10-D	09/22/2016 15:23	
GW-13-119		Ground Water/ Jason Stroup	Grab	TM + Hg(35)	1003 (Ice to 4C & HNO3) (1)	GW-13-119	09/22/2016 12:29	
GW-14		Ground Water/ Jason Stroup	Grab	TM + Hg(35)	1048 (Ice to 4C & HNO3) (2)	GW-14	09/22/2016 10:03	

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Sample(s) to be used for Lab QC: GW-14 Tag 1048

Analysis Key: TM + Hg=Total Metals + Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		EA 9-22-16/1600	Aaron Bugher	EA 9-22-16/1600	
		EA 9-22-16/1800	FedEx (Courier)	9-22-16/1800	
				9/23/16 9:05	

Temp Blank = 0 not Frozen

AirbillNo: 7772 9066 3369

CHAIN OF CUSTODY RECORD

Case #:

No: 6-092016-083702-0008

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137

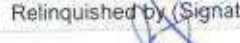

[illegible]

Sample(s) to be used for Lab QC: GW-14 Tag 1049

Analysis Key: CN=Cyanide

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		EA 9-22-16/ 1600	Carson Bayler	EA 9-22-16/ 1600	
	Carson Bayler	EA 9-22-16/ 1800	FedEx (courier)	9-22-16/ 1800	
				9/23/16 9:05	

Temp Blank = 0°C not Frozen

USEPA CLP COC (LAB COPY)

Date Shipped: 9/22/2016

Carrier Name: FedEx

Airbill No: 7772 9637 7961

CHAIN OF CUSTODY RECORD

Case #: 46417

No: 6-092216-083810-0030

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
GW-09-Cr6		Ground Water/ Aaron Bugher	Grab	Hex Cr(35)	4032 (Ice to 4C & NH4OH/(NH4)2SO4) (1)	GW-09-Cr6	09/22/2016 14:00	
ER-160922		Water/ Jason Stroup	Grab	Hex Cr(35)	1052 (Ice to 4C & NH4OH/(NH4)2SO4) (1)	ER-160922	09/22/2016 13:40	
GW-08		Ground Water/ Aaron Bugher	Grab	Hex Cr(35)	1027 (Ice to 4C & NH4OH/(NH4)2SO4) (1)	GW-08	09/22/2016 14:25	
GW-08-D		Ground Water/ Aaron Bugher	Grab	Hex Cr(35)	1067 (Ice to 4C & NH4OH/(NH4)2SO4) (1)	GW-08-D	09/22/2016 14:25	
GW-10		Ground Water/ Jason Stroup	Grab	Hex Cr(35)	1037 (Ice to 4C & NH4OH/(NH4)2SO4) (1)	GW-10	09/22/2016 15:23	
GW-10-D		Ground Water/ Jason Stroup	Grab	Hex Cr(35)	1062 (Ice to 4C & NH4OH/(NH4)2SO4) (1)	GW-10-D	09/22/2016 15:23	
GW-13-119		Ground Water/ Jason Stroup	Grab	Hex Cr(35)	1002 (Ice to 4C & NH4OH/(NH4)2SO4) (1)	GW-13-119	09/22/2016 12:29	
GW-14		Ground Water/ Jason Stroup	Grab	Hex Cr(35)	1047 (Ice to 4C & NH4OH/(NH4)2SO4) (2)	GW-14	09/22/2016 10:03	

Sample(s) to be used for Lab QC: GW-14 Tag 1047

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: Hex Cr=Hexavalent Chromium

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	 EA	9-22-16/1600	Aaron Bugher EA	9-22-16/1600	
	 EA	9-22-16/1800	FedEx (carrier)	9-22-16/1800	
				9/23/16 9:05	

Temp Blank = 1st

USEPA CLP COC (LAB COPY)

Date Shipped: 9/22/2016

Carrier Name: FedEx

Airbill No: 7772 9066 7114

CHAIN OF CUSTODY RECORD

Case #:

No: 6-092216-090053-0031

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
TB-160922-1		Water/ Aaron Bugher	Grab	EDB(35)	3056 (Ice to 4C & HCL) (2)	TB-160922-1	09/22/2016 09:00	
ER-160922		Water/ Jason Stroup	Grab	EDB(35)	1050 (Ice to 4C & HCL) (2)	ER-160922	09/22/2016 13:40	
GW-07		Ground Water/ Jason Stroup	Grab	EDB(35)	1020 (Ice to 4C & HCL) (2)	GW-07	09/21/2016 10:59	
GW-08		Ground Water/ Aaron Bugher	Grab	EDB(35)	1025 (Ice to 4C & HCL) (2)	GW-08	09/22/2016 14:25	
GW-08-D		Ground Water/ Aaron Bugher	Grab	EDB(35)	1065 (Ice to 4C & HCL) (2)	GW-08-D	09/22/2016 14:25	
GW-09		Ground Water/ Ryan Guth	Grab	EDB(35)	1030 (Ice to 4C & HCL) (2)	GW-09	09/21/2016 16:51	
GW-10		Ground Water/ Jason Stroup	Grab	EDB(35)	1035 (Ice to 4C & HCL) (2)	GW-10	09/22/2016 15:23	
GW-10-D		Ground Water/ Jason Stroup	Grab	EDB(35)	1060 (Ice to 4C & HCL) (2)	GW-10-D	09/22/2016 15:23	
GW-12		Ground Water/ Jason Stroup	Grab	EDB(35)	1040 (Ice to 4C & HCL) (2)	GW-12	09/21/2016 13:32	
GW-13-119		Ground Water/ Jason Stroup	Grab	EDB(35)	1000 (Ice to 4C & HCL) (2)	GW-13-119	09/22/2016 12:29	

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Special Instructions:

Analysis Key: EDB=EDB

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		EA 9-22-16/1600	Aaron Bugher EA	9-22-16/1600	
		EA 9-22-16/1700	Aaron Bugher EA	9-22-16/1700	
		EA 9-22-16/1800	FedEx (carrier)	9-22-16/1800	
				9/23/16 9:05	

Temp Blank = 0°C Not Frozen

AirbillNo: 7772 9066 7114

CHAIN OF CUSTODY RECORD

Case #:

No: 6-092216-090053-0031

Lab: EPA Region 6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 281-983-2137

[illegible]

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: EDB=EDB

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	 EA	9-22-16/1600	Aaron Bugher EA	9-22-16/1600	
	 EA	9-22-16/1700	Aaron Bugher EA	9-22-16/1700	
	 EA	9-22-16/1800	FE/Ex (Courier)	9-22-16/1800	
				9/23/16 9:05	

Temp Blank = 0°C NOT FROZEN